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NOTICE OF ALLOWANCE AND FEE(S) DUE

136

7590

12/10/2008

JACOBSON HOLMAN PLLC 400 SEVENTH STREET N.W. SUITE 600 WASHINGTON, DC 20004

EXAMINER					
PURINTON, BROOKE J					
ART UNIT	PAPER NUMBER				

2881 DATE MAILED: 12/10/2008

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/593.091	12/13/2006	Naotoshi Kirihara	P71443US0	7840

TITLE OF INVENTION: LASER IONIZATION MASS SPECTROSCOPE

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	03/10/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

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If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

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III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

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WASHINGTON	I, DC 20004							(Depositor's name)
								(Signature)
								(Date)
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10/593,091 ITLE OF INVENTION	12/13/2006 :: LASER IONIZATION	MASS SPECTROSCOP	Naotoshi Kirihara E	l			P71443US0	7840
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nonprovisional	NO	\$1510	\$300		\$0		\$1810	03/10/2009
EXAM	IINER	ART UNIT	CLASS-SUBCLASS					
PURINTON,	, BROOKE J	2881	250-288000		'			
Change of correspondence address or indication of "Fee Address" (37 FR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.			(1) the names of u or agents OR, alter (2) the name of a sregistered attorney 2 registered patent	2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.				
PLEASE NOTE: Unl recordation as set fort (A) NAME OF ASSIG	less an assignee is ident h in 37 CFR 3.11. Comp GNEE		data will appear on the Tasubstitute for filing (B) RESIDENCE: (C)	he pa g an a	ntent. If an assigne assignment. and STATE OR Co	OUNT	TRY)	cument has been filed for
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a. The following fee(s) Issue Fee Publication Fee (N Advance Order -	To small entity discount p	permitted)	A check is enclos Payment by credi The Director is he	ed. t card reby	d. Form PTO-2038	is atta	ched. required fee(s), any def.	
	tus (from status indicated s SMALL ENTITY state	,	☐ b. Applicant is no	long	ger claiming SMAL	L ENT	ΓΙΤΥ status. See 37 CF	R 1.27(g)(2).
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JACOBSON HO	LMAN PLLC		PURINTON	BROOKE J
400 SEVENTH ST	REET N.W.		ART UNIT	PAPER NUMBER
SUITE 600 WASHINGTON, I	DC 20004		2881 DATE MAILED: 12/10/200	8

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 301 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 301 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)	
	10/593,091	KIRIHARA ET AL.	
Notice of Allowability	Examiner	Art Unit	
	Prooks Durinton	2001	
	Brooke Purinton	2881	
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED or other appropriate comr IGHTS. This application is	in this application. If not included nunication will be mailed in due cours	e. THIS ne initiative
1. This communication is responsive to <u>12/13/2006</u> .			
2. The allowed claim(s) is/are <u>1-19</u> .			
 3. Acknowledgment is made of a claim for foreign priority unal All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 	e been received.	, , ,	
3. Copies of the certified copies of the priority do	cuments have been receiv	ed in this national stage application fr	om the
International Bureau (PCT Rule 17.2(a)).			
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		le a reply complying with the requiren	nents
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give			E OF
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.		
(a) \square including changes required by the Notice of Draftspers	son's Patent Drawing Revi	ew (PTO-948) attached	
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date			
(b) ☐ including changes required by the attached Examiner'Paper No./Mail Date	s Amendment / Comment	or in the Office action of	
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t			of
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT			he
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5. ☐ Notice of	Informal Patent Application	
2. Notice of Draftperson's Patent Drawing Review (PTO-948)		Summary (PTO-413),	
3. ☑ Information Disclosure Statements (PTO/SB/08),	Paper No 7.	o./Mail Date 's Amendment/Comment	
Paper No./Mail Date <u>1/3/2007</u> 4. ☐ Examiner's Comment Regarding Requirement for Deposit		's Statement of Reasons for Allowanc	۵
of Biological Material	o. ☑ Examiner 9. ☐ Other		
/Jack I. Berman/	<u> </u>	 :	
Primary Examiner, Art Unit 2881			

DETAILED ACTION

Allowable Subject Matter

Claims 1-19 are allowed.

The following is an examiner's statement of reasons for allowance:

The prior art taken singularly or in combination fails to anticipate or fairly suggest the limitations of the independent claims, in such a manner that a rejection under 35 U.S.C. 102 or 103 would be proper.

In regard to independent claims 1 and 19, the prior art taken either singly or in combination fails to anticipate or fairly suggest "an overtaking position whereat a leading portion gas (a gas ejected prior to full opening of said valve) in said pulsed carrier gas ejected from said pulsed gas ejecting means and translating in said vacuum chamber is overtaken by a faster flat portion gas (a gas ejected during full opening of said valve) is obtained"; recited together in combination with the totality of particular features/limitations recited therein.

In regard to independent claim 3, the prior art taken either singly or in combination fails to anticipate or fairly suggest

"detecting pressure of said carrier gas flow by said high speed ionization vacuum gauge, observing a pressure time waveform of said carrier gas by an oscilloscope, confirming presence of a flat portion in said waveform, moving stepwise said pulsed gas ejecting means from said initial position in a direction distant from said high speed ionization vacuum gauge, ejecting in pulse mode said carrier gas flow from said pulsed gas ejecting means to said high speed ionization vacuum gauge at respective positions in movement, detecting pressure of said carrier gas flow by said high speed ionization vacuum gauge, observing pressure time waveform of said carrier gas by said oscilloscope, confirming absence of said flat portion in said pressure time waveform of said carrier gas flow at any position observed by said oscilloscope and setting laser beam irradiation point to said carrier gas flow near a relative position of said gas ejecting opening of said pulsed gas ejecting means to said high speed ionization vacuum gauge when said flat portion is not observed"

recited together in combination with the totality of particular features/limitations recited therein.

Application/Control Number: 10/593,091 Page 3

Art Unit: 2881

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Patents 6573493 (laser ionization of ejected gas/sample gas) and 6390115 (detailed discussion of gas beams/gas valves).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brooke Purinton whose telephone number is 571.270.5384. The examiner can normally be reached on Monday - Friday 7h30-5h00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Kim can be reached on 571.272.2293. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Jack I. Berman/ Primary Examiner, Art Unit 2881 Brooke Purinton Examiner Art Unit 2881 /B. P./ Examiner, Art Unit 2881